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Atty. Doc. No. 2003P03453WOUS

Amendments to the Claims:

1.-11. (canceled)

12. (currently amended) A fuel cell, comprising a separator disposed between two

electrolyte-electrode units, wherein

the separator is formed from two plates each having rib shaped embossing and touching

at contact surfaces, wherein the rib shaped embossing on each plate includes a plurality of

generally straight and parallel ribs and the plates and embossings are rotated relative to one

another so the ribs on one plate, and the embossings on one plate have an axis of symmetry that

is offset relative to an axis of symmetry on the other plate;

a first fluid chamber for a coolant is formed between the two plates and a second fluid

chamber for a gas is formed between each plate and the adjacent electrolyte-electrode unit in

each case; and, wherein

the first fluid chamber for the coolant has two subchambers each subchamber facing one

of the two plates where the subchambers are arranged adjacent and non-planar to each other and

separated by a central plane comprising an overflow section configured to direct the coolant flow

alternately through the two and non-planar subchambers.

13. (previously presented) The fuel cell according to claim 12, wherein the plates have

approximately identical embossings.

14.-15. (canceled)

16. (previously presented) The fuel cell according to claim 12, wherein the embossings of

the plates are offset relative to one another.

17.-19. (canceled)

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- 20. (previously presented) The fuel cell according to claim 12, wherein the contact surfaces are gold-plated.
- 21. (previously presented) The fuel cell according to claim 13, wherein the contact surfaces are gold-plated.
- 22. (previously presented) The fuel cell according to claim 12, wherein the contact surfaces are distributed approximately uniformly over the surface of the separator.
- 23. (previously presented) The fuel cell according to claim 13, wherein the contact surfaces are distributed approximately uniformly over the surface of the separator.
- 24. (previously presented) The fuel cell according to claim 12, wherein the total surface area of the contact surfaces is at least 10% of the surface area of the separator.
- 25. (previously presented) The fuel cell according to claim 13, wherein the total surface area of the contact surfaces is at least 10% of the surface area of the separator.
- 26. (previously presented) The fuel cell according to claim 12, wherein the total surface area of the contact surfaces is no more than 90% of the surface area of the separator.
- 27. (previously presented) The fuel cell according to claim 13, wherein the total surface area of the contact surfaces is no more than 90% of the surface area of the separator.

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28. (currently amended) A fuel cell with a separator disposed between two electrolyte-electrode units, which separator is formed from two plates each having an embossing and touching at contact surfaces, a fluid chamber for a coolant being formed between the two plates and a fluid chamber for a gas being formed between each plate and the adjacent electrolyte-electrode unit in each case, wherein the fluid chamber for the coolant has two subchambers each facing a plate and separated by an overflow section wherein coolant can only flow through said fluid chamber alternately through the two subchambers, wherein the embossing on each plate is rib shaped including generally straight and parallel ribs and wherein one plate and the embossings on one plate have an axis of symmetry that is offset relative to an axis of symmetry on the other plate.

29. (currently amended) A heating device of a fuel cell, having a flow directing element disposed between opposite edge plates, wherein the flow directing element is formed as a heating element from two plates each having an embossing, a flow chamber being formed between the heating element and an edge plate in each case and another flow chamber being formed between the plates, the last mentioned flow chamber having subchambers each facing a plate and comprising an overflow section configured to provide a flow path solely on an alternating basis, wherein the embossing is rib shaped including generally straight and parallel ribs and the embossings on one plate have an axis of symmetry that is offset relative to an axis of symmetry on the other plate.

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30. (currently amended) The heating device according to claim 29, wherein the fuel cell includes:

a separator disposed between two electrolyte-electrode units, wherein

the separator is formed from two plates each having an essentially rib shaped embossing and touching at contact surfaces, wherein the rib shaped embossing on each plate includes a plurality of generally straight and parallel ribs and the embossings on one plate have an axis of symmetry that is offset relative to an axis of symmetry on the other plate;

a first fluid chamber for a coolant is formed between the two plates and a second fluid chamber for a gas is formed between each plate and the adjacent electrolyte-electrode unit in each case; and, wherein

the first fluid chamber for the coolant has two subchambers each subchamber facing one of the two plates where the subchambers are arranged adjacent and non-planar to each other and separated by a central plane comprising an overflow section configured to direct the coolant flow alternately through the two non-planar subchambers.